

Figure 1. Two-Channel Ceramic Combiner Utilizing Loop Coupling. Network Cover Removed for Clarity. PRIOR ART.

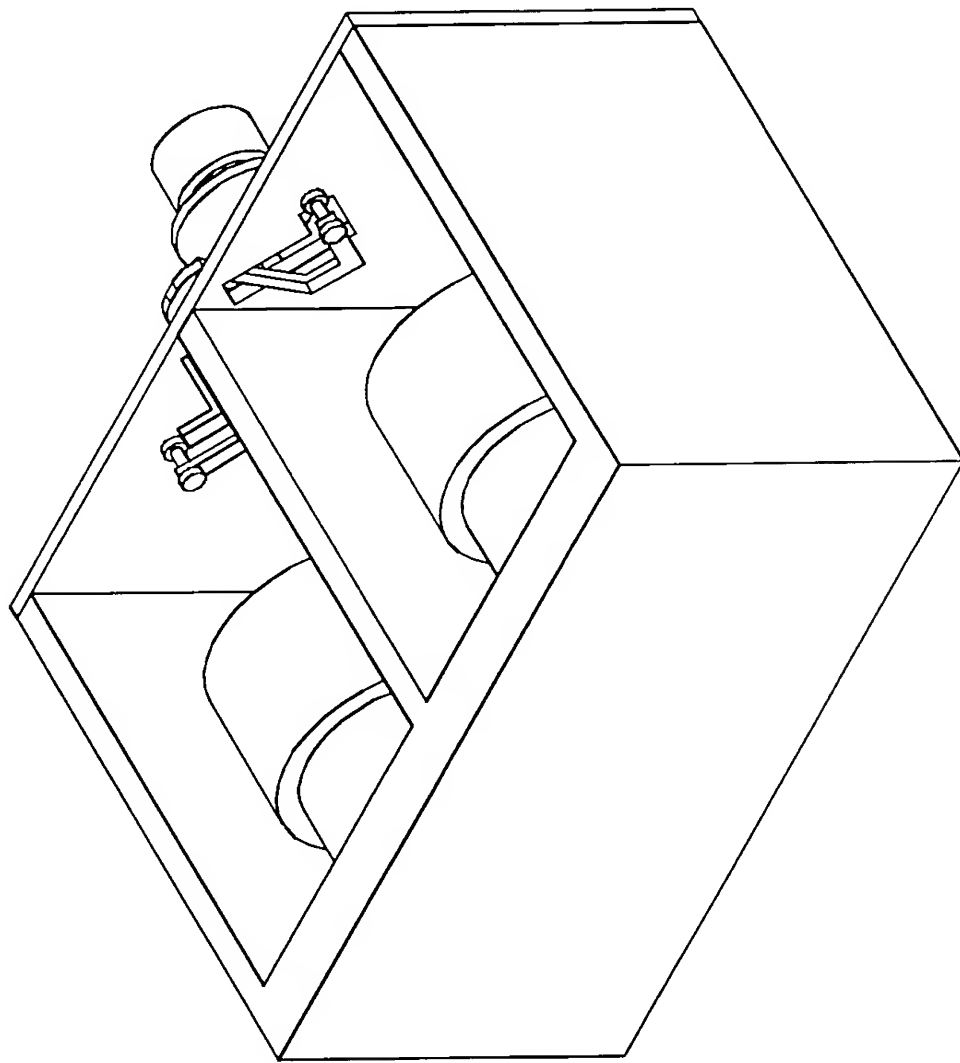


Figure 2. Reverse View of Ceramic Combiner with Loop Coupling. Cavity Cover Removed for Clarity. PRIOR ART.

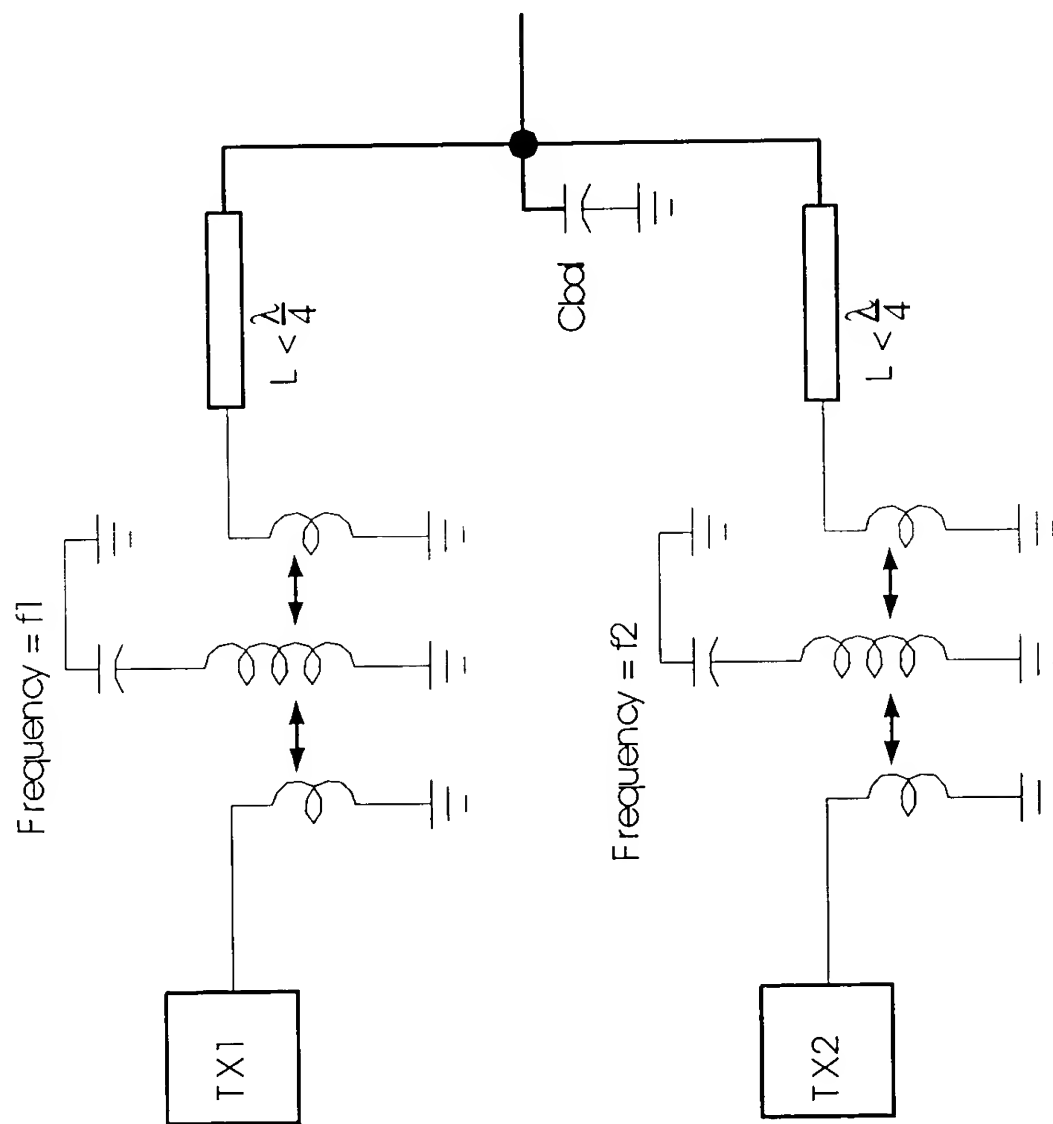


Figure 3. Schematic of Two-Channel Combiner with sub-quarter-wave lines combining outputs. PRIOR ART

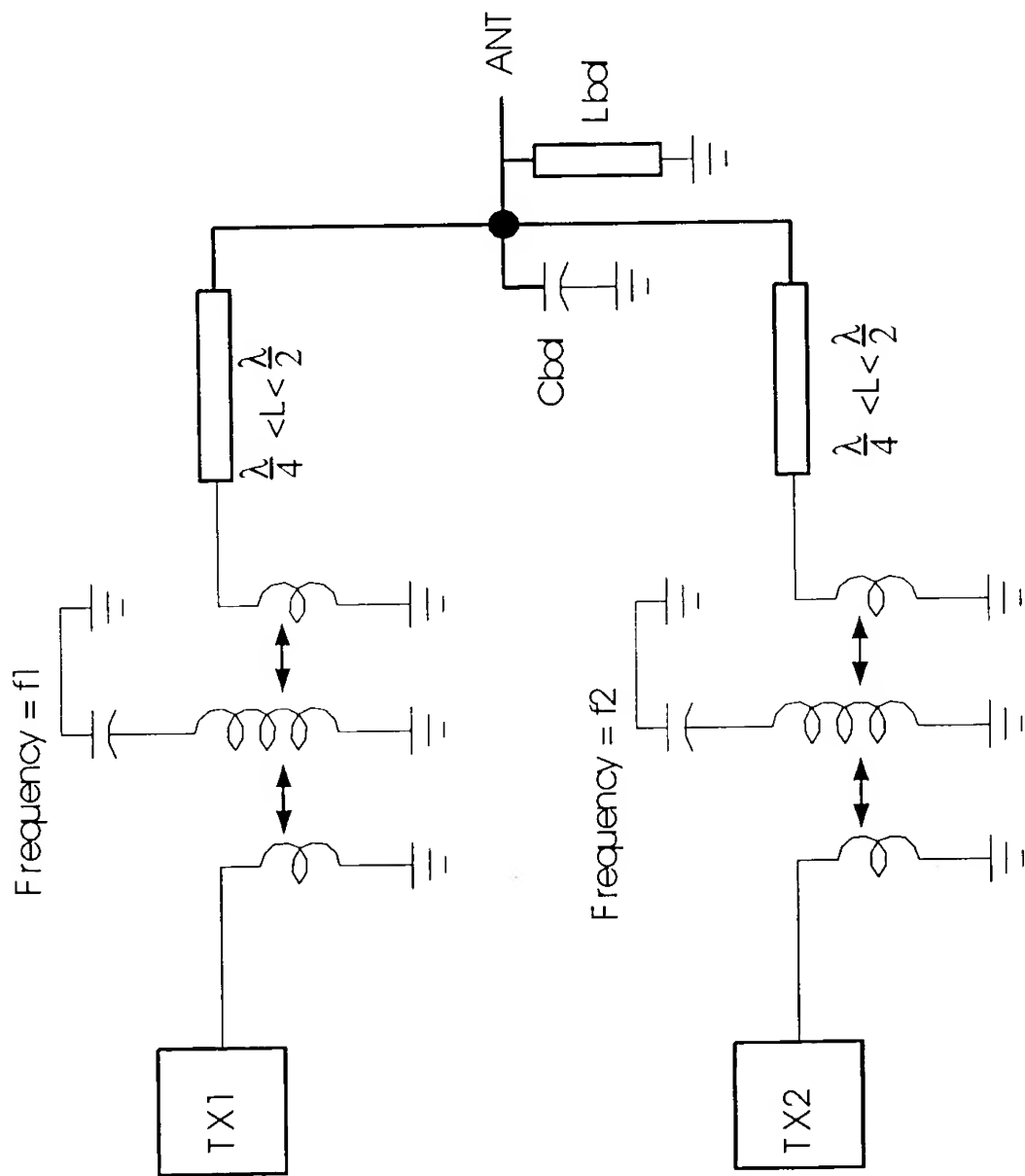


Figure 4. Schematic of Two-Channel Combiner with longer lines combining outputs. PRIOR ART

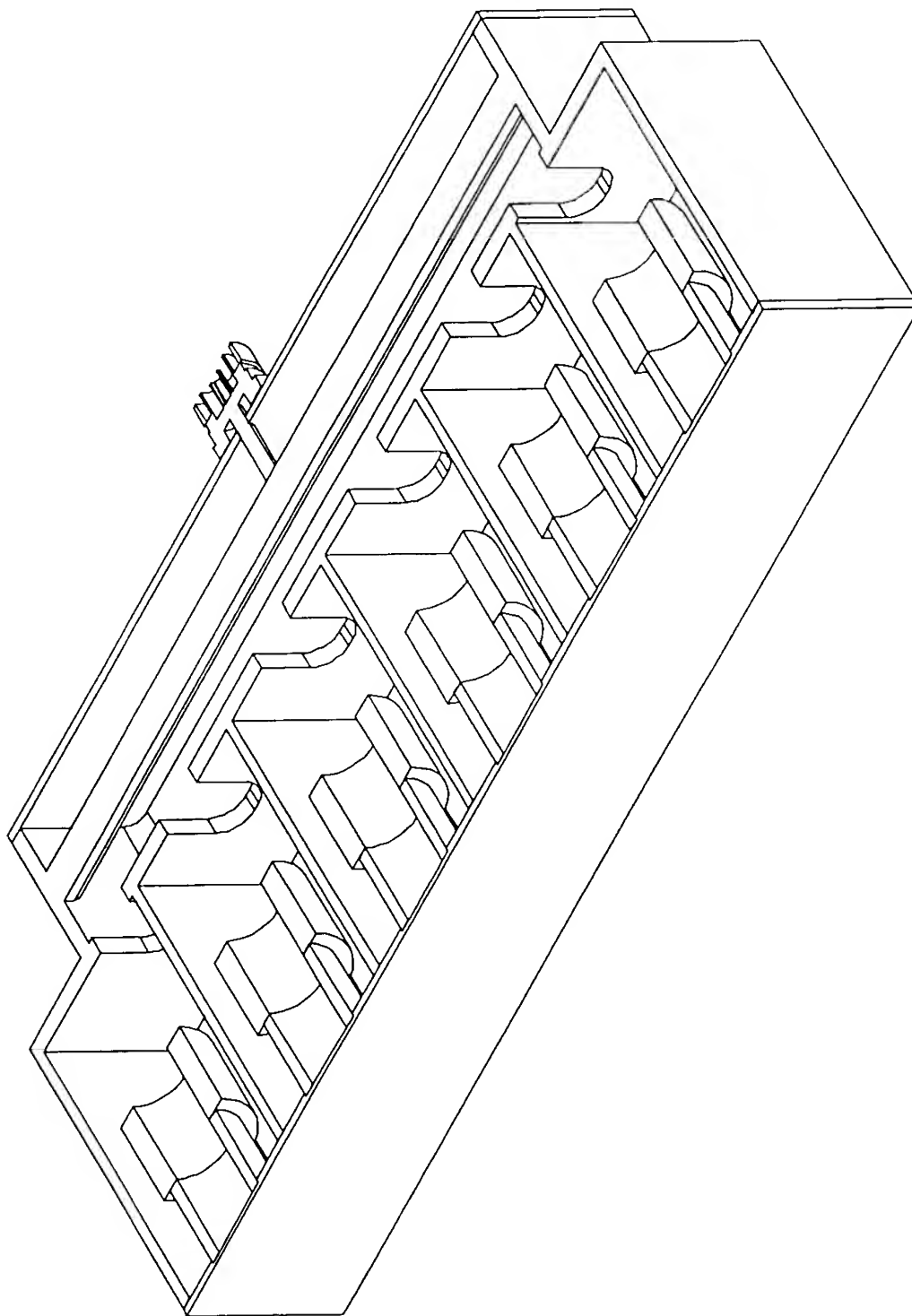


Figure 5. Ceramic Resonator Combiner Using Common Output Coaxial Resonator – Cut-away View. PRIOR ART

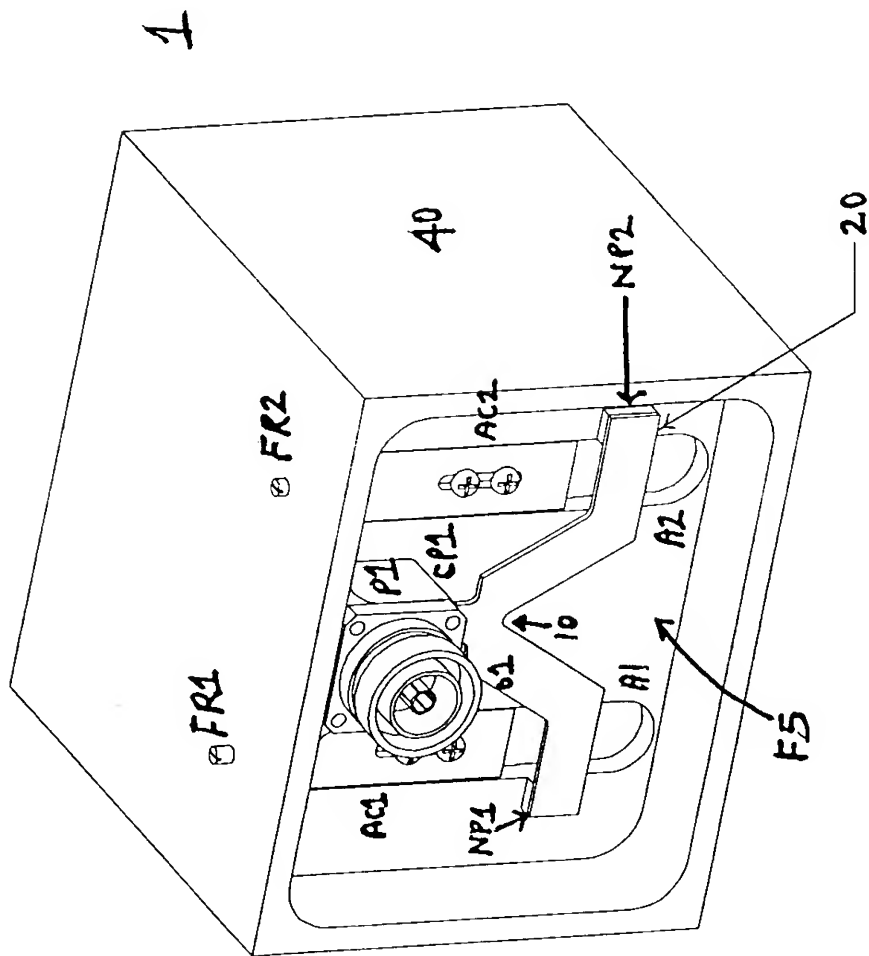


Figure 6. Two-Channel Ceramic Combiner Utilizing Aperture Coupling (Cover Removed for Clarity)

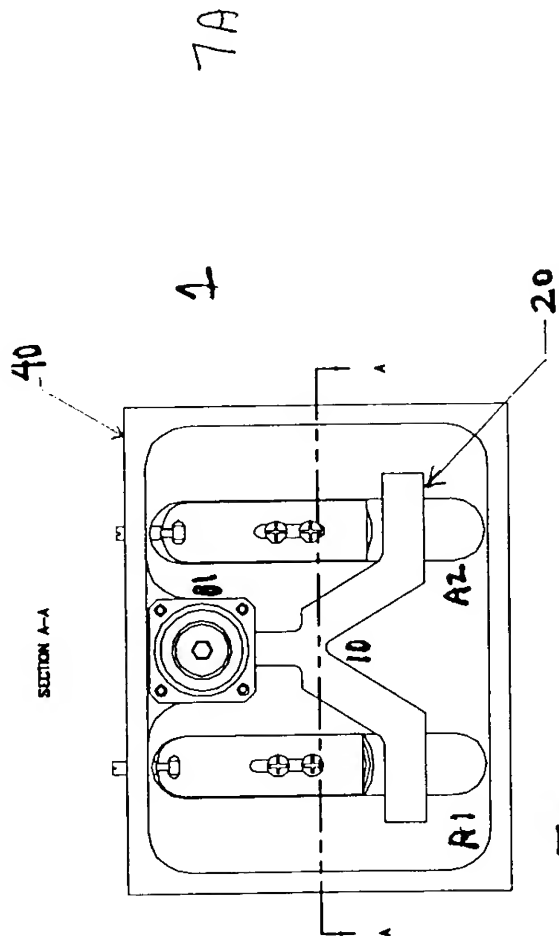
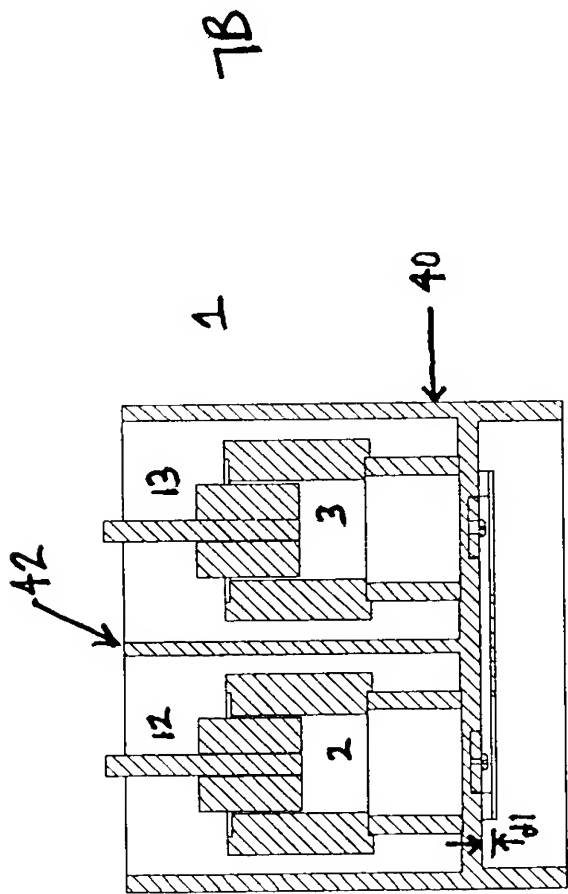


Figure 7. Front & Side View - Two-Channel Combiner Junction. Covers removed from drawing for clarity.

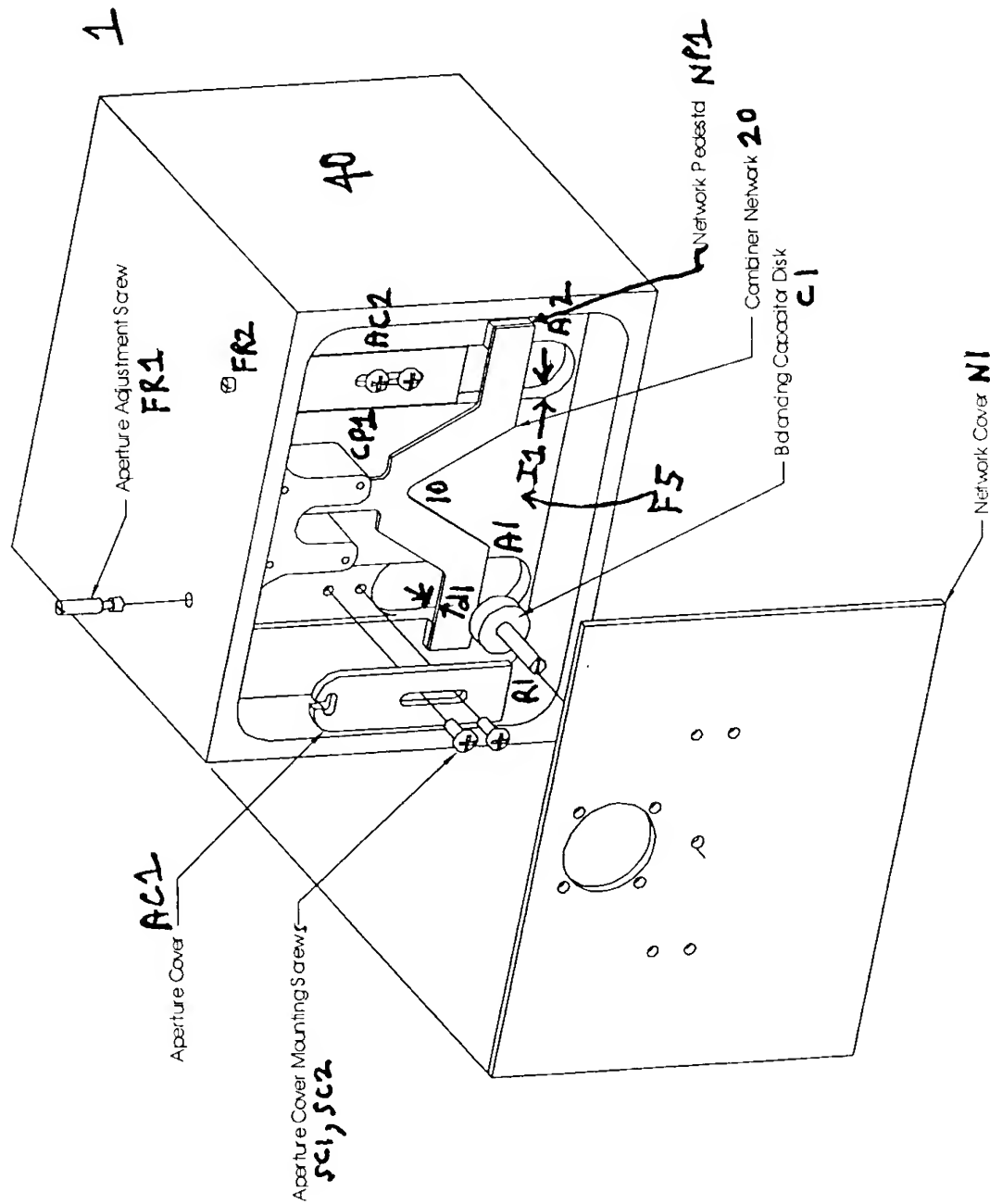


Figure 8. Front View - Two-Channel Combiner Using Novel Junction



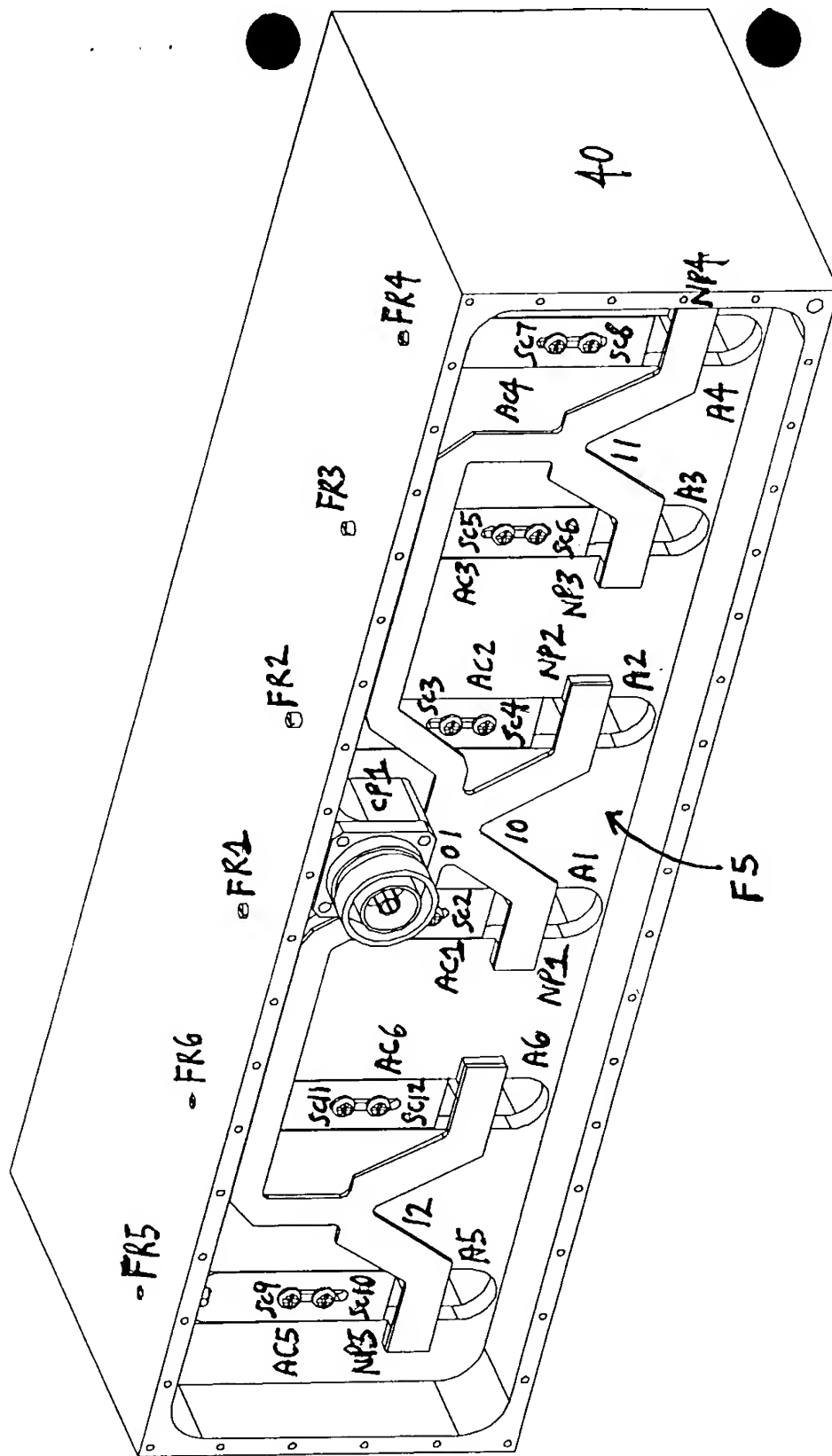


Figure 9: 6-channel Ceramic Combiner Utilizing Novel Junction (Cover Removed for Clarity)

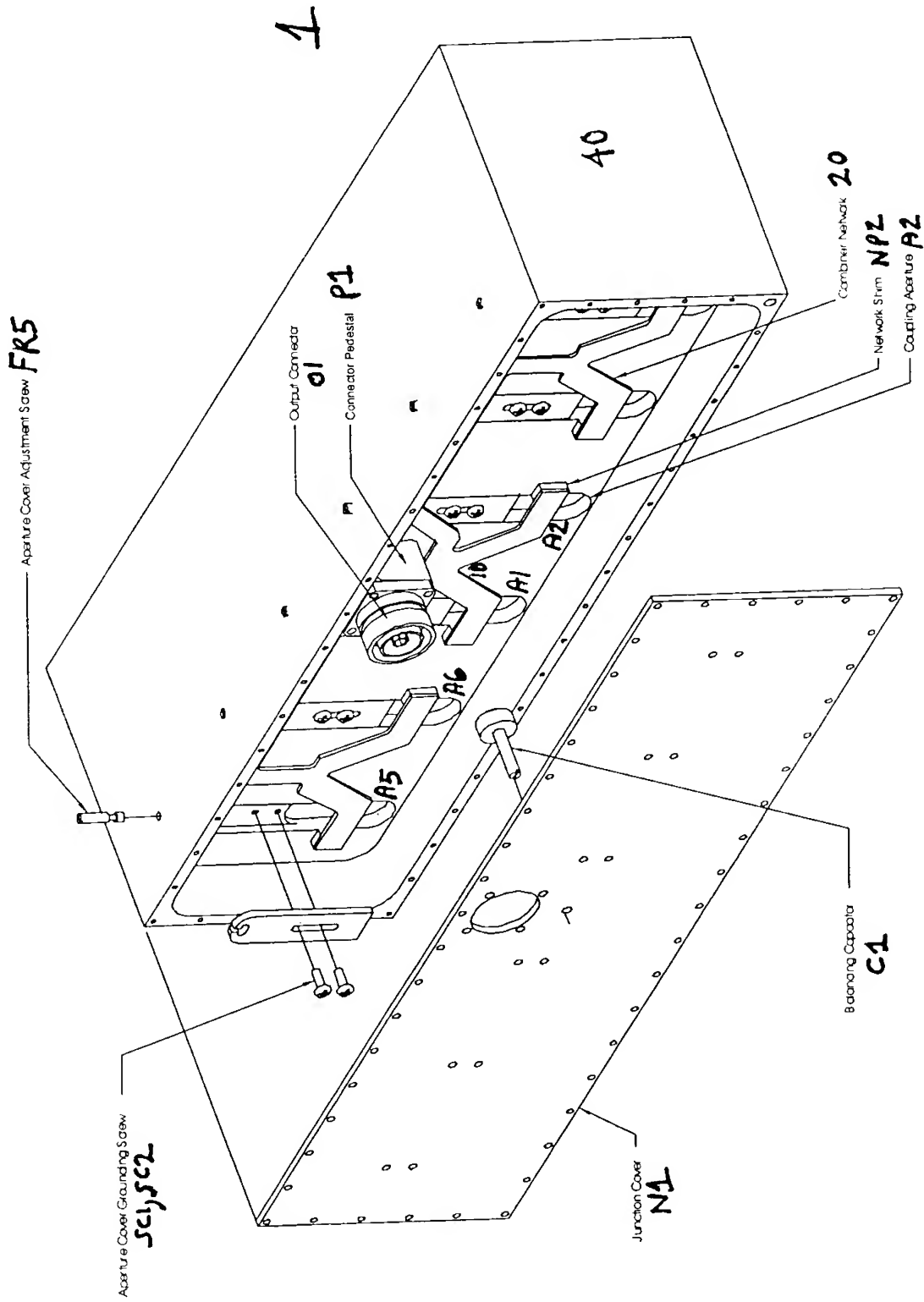
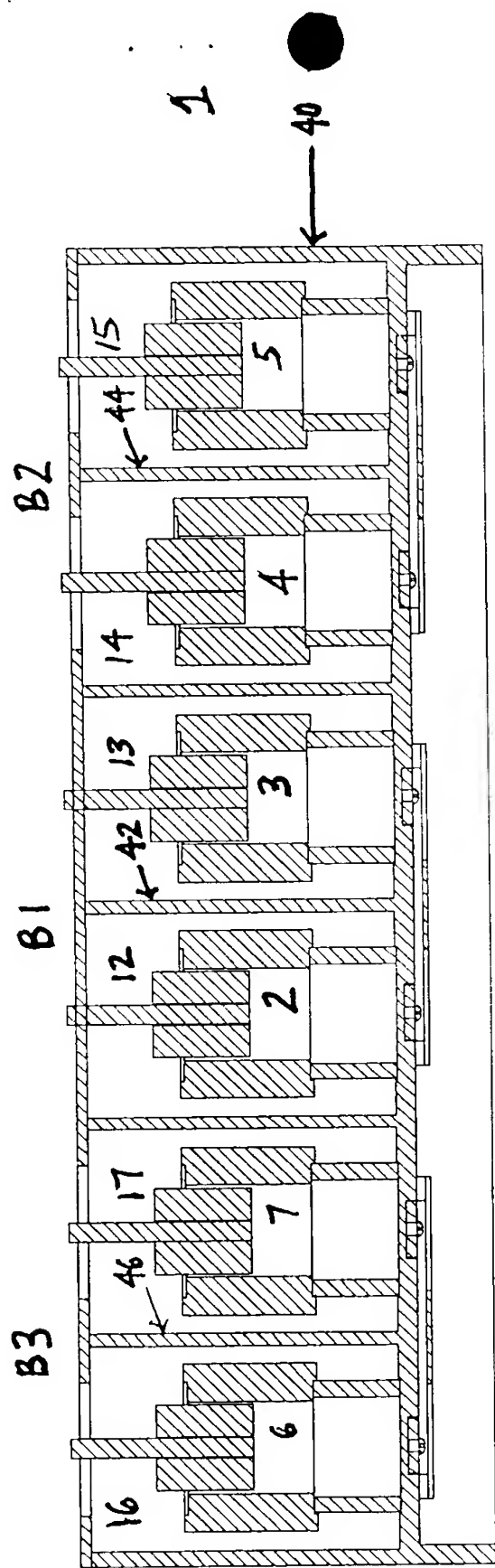


Figure 10: Exploded View of 6-Channel Network Applied to Ceramic Resonator Combiner



SECTION A-A

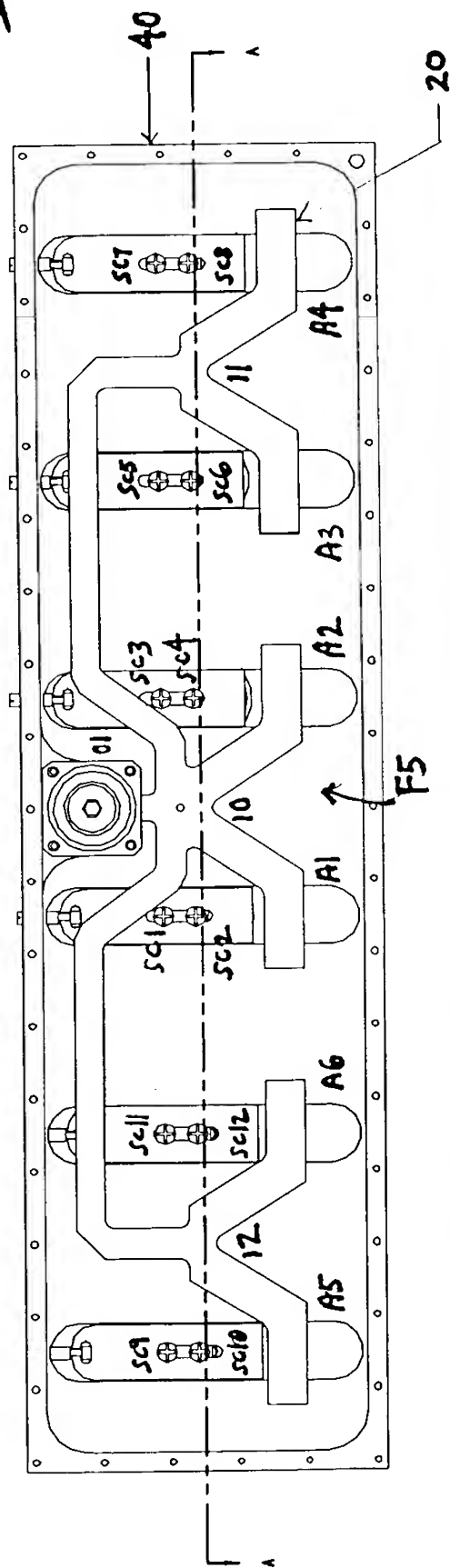
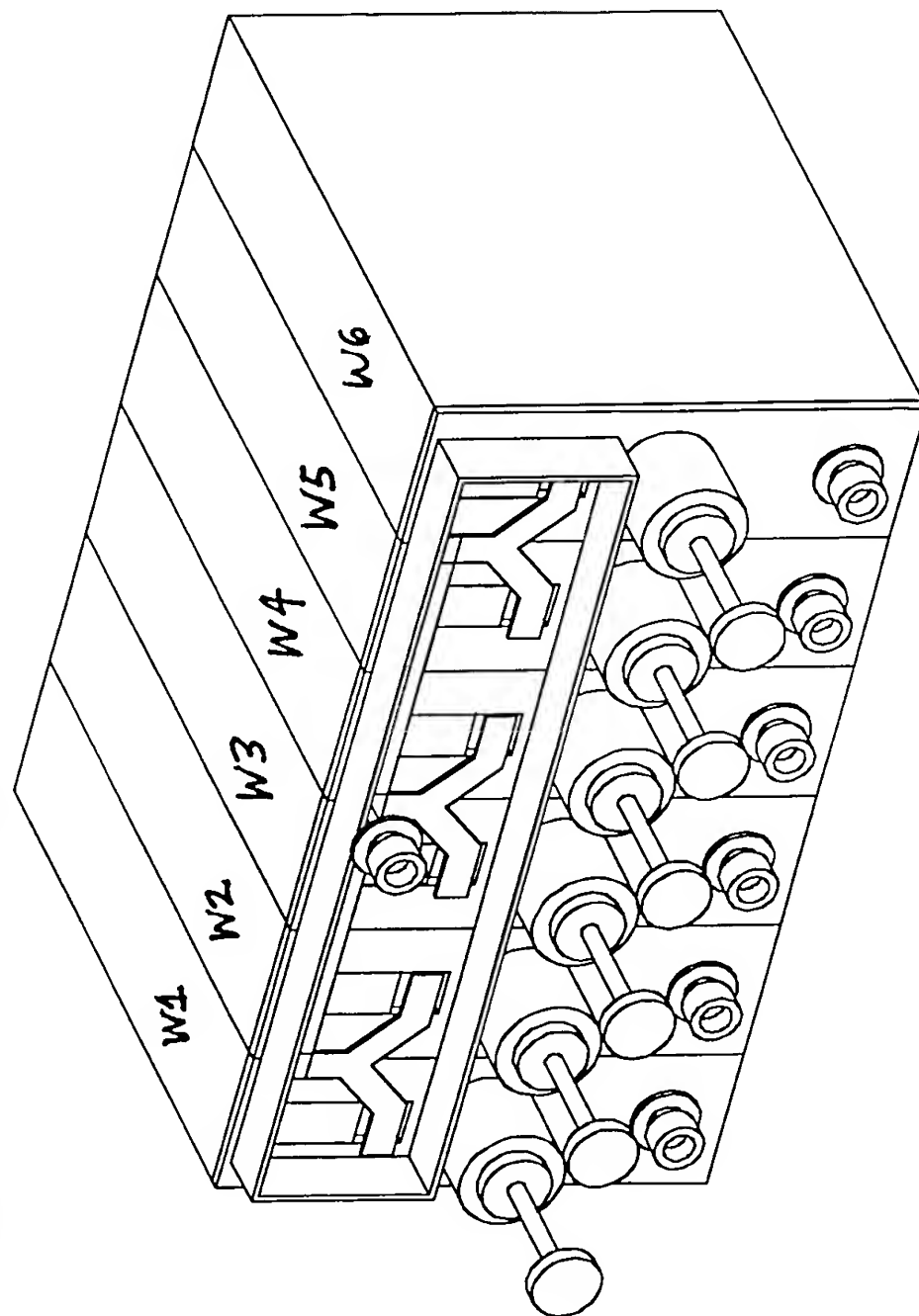


Figure 11: Front & Top View of Combiner Network – Cover & Capacitor Removed for Clarity.

Figure 12. Waveguide In-Line Combiner Utilizing Novel Junction Design (Cover Removed for Clarity)



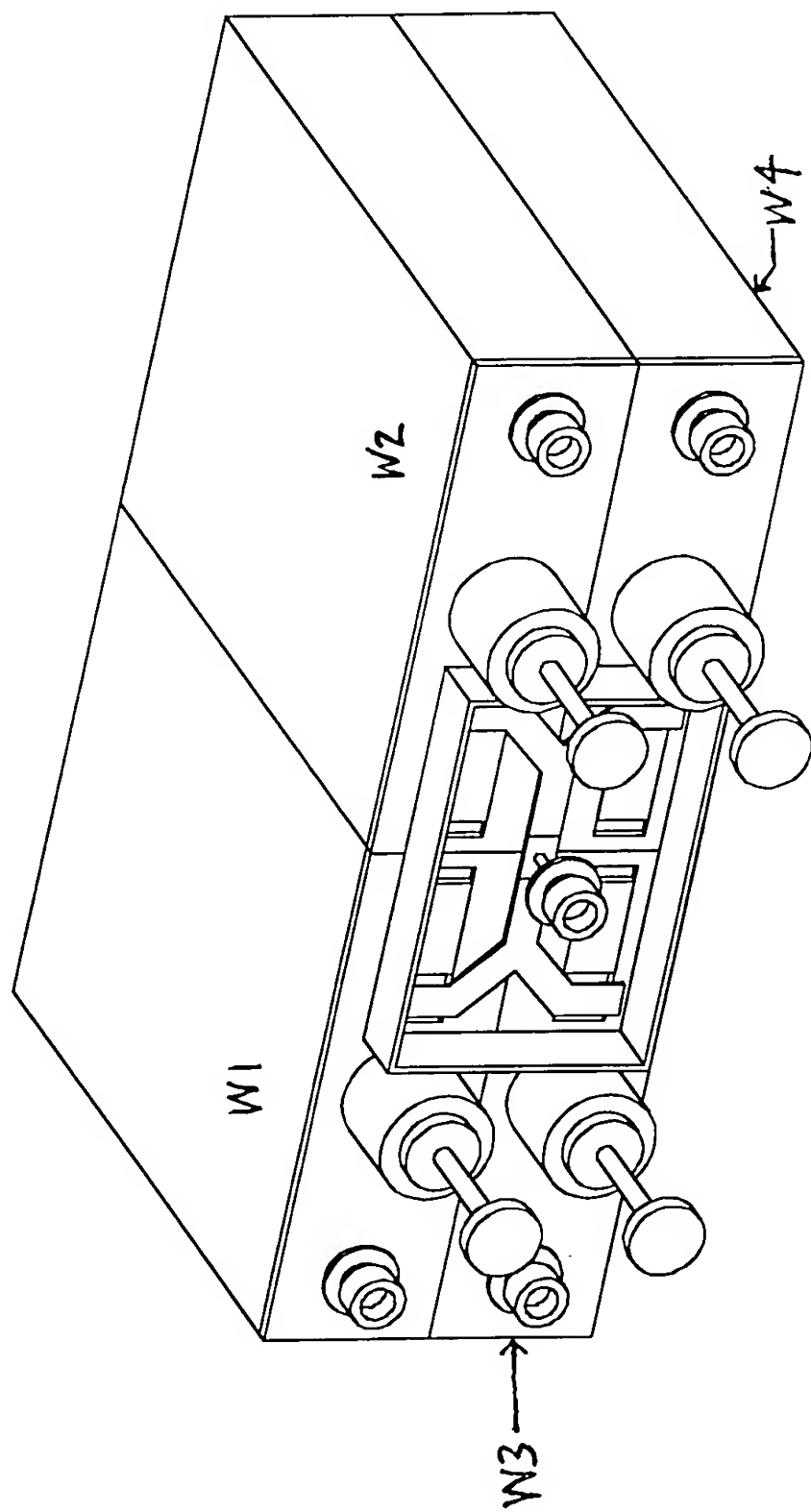


FIGURE 13. Four-Channel Central-Junction Waveguide Combiner Using Novel Junction Design (Cover Removed for Clarity)